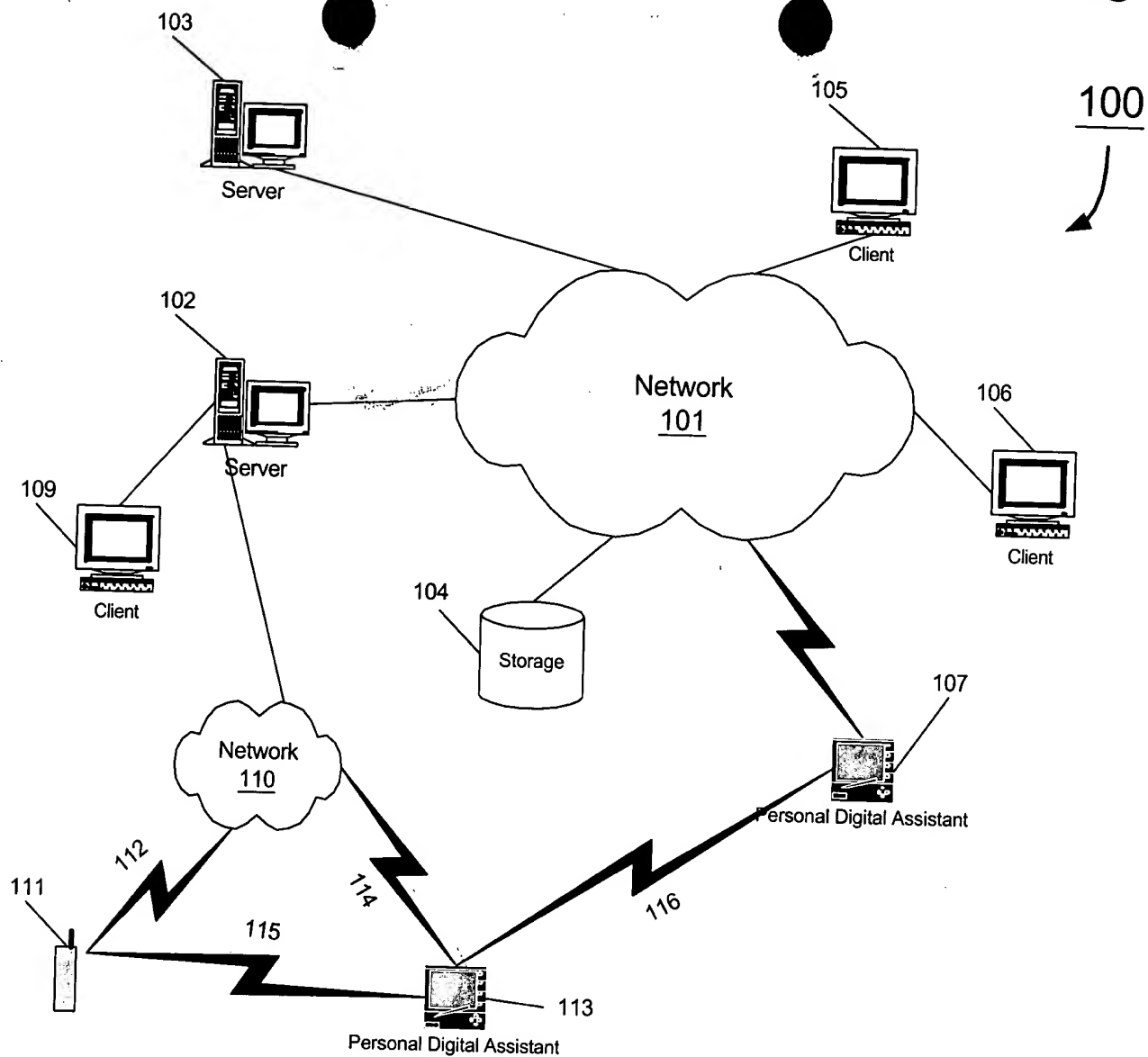


EF40965236213



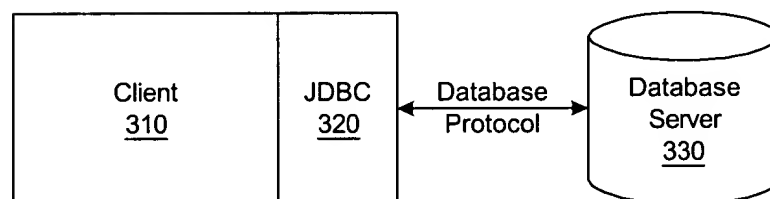
00717818-112100

Prior Art
Figure 1A

The diagram illustrates a computer system 120. A central vertical bus 123 connects several internal components: a stack of CPUs (122), RAM (124), ROM (126), an I/O Adapter (128), and a Communication Adapter (134). The I/O Adapter (128) is connected to a Printer (130) and a Disk (132). The Communication Adapter (134) is connected to a bidirectional communication line 136. External peripherals are connected via separate adapters: a Display Adapter (144) connects the bus to a Display (146), and a User Interface Adapter (148) connects the bus to a Keyboard (140) and a Mouse (142).

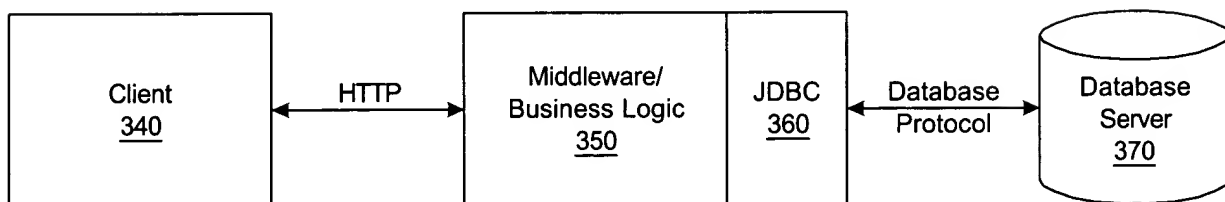
Prior Art

Prior Art
Figure 2



Prior Art

Figure 3A



Prior Art

Figure 3B

001221-8182160

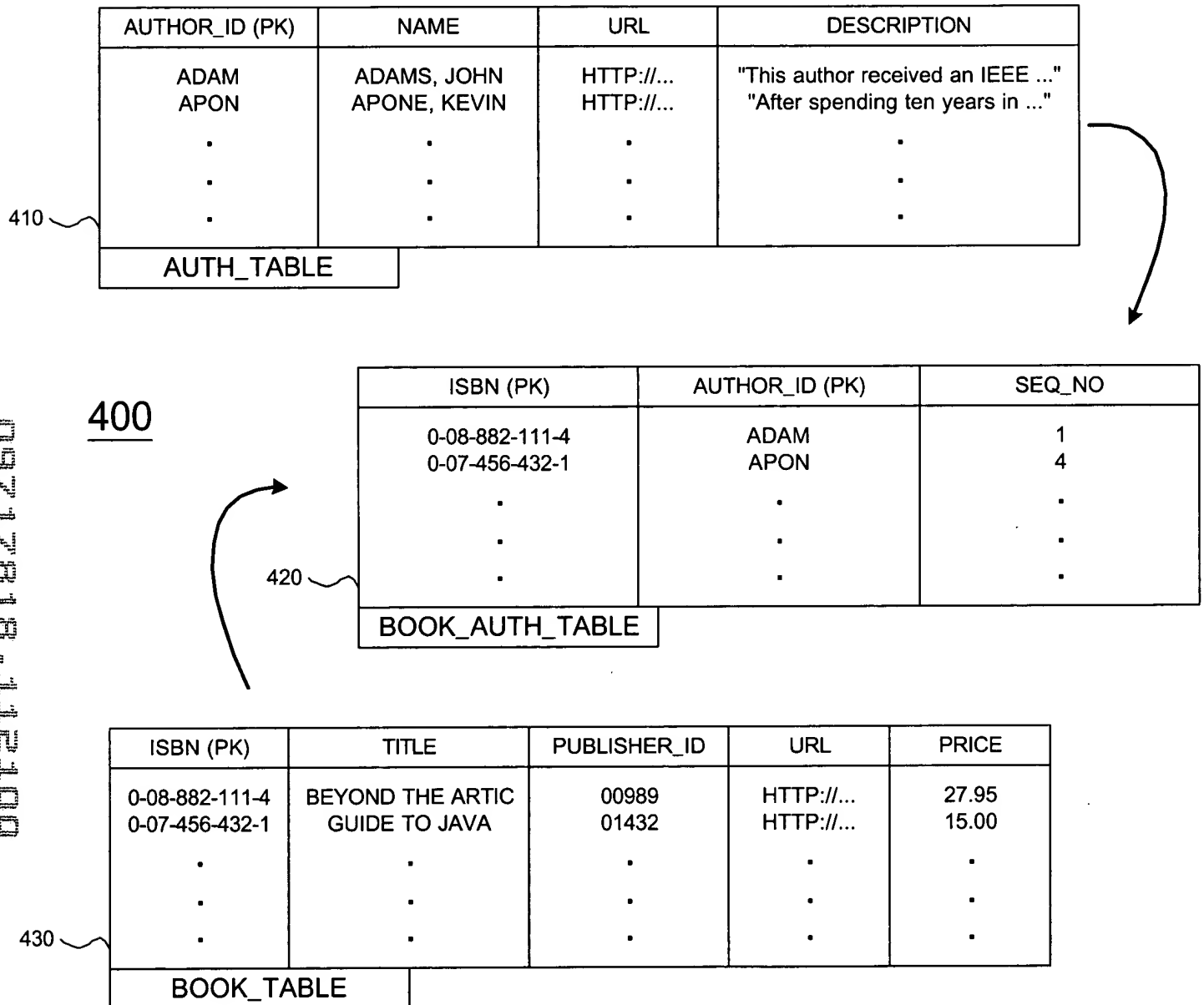


Figure 4

09717818-13100

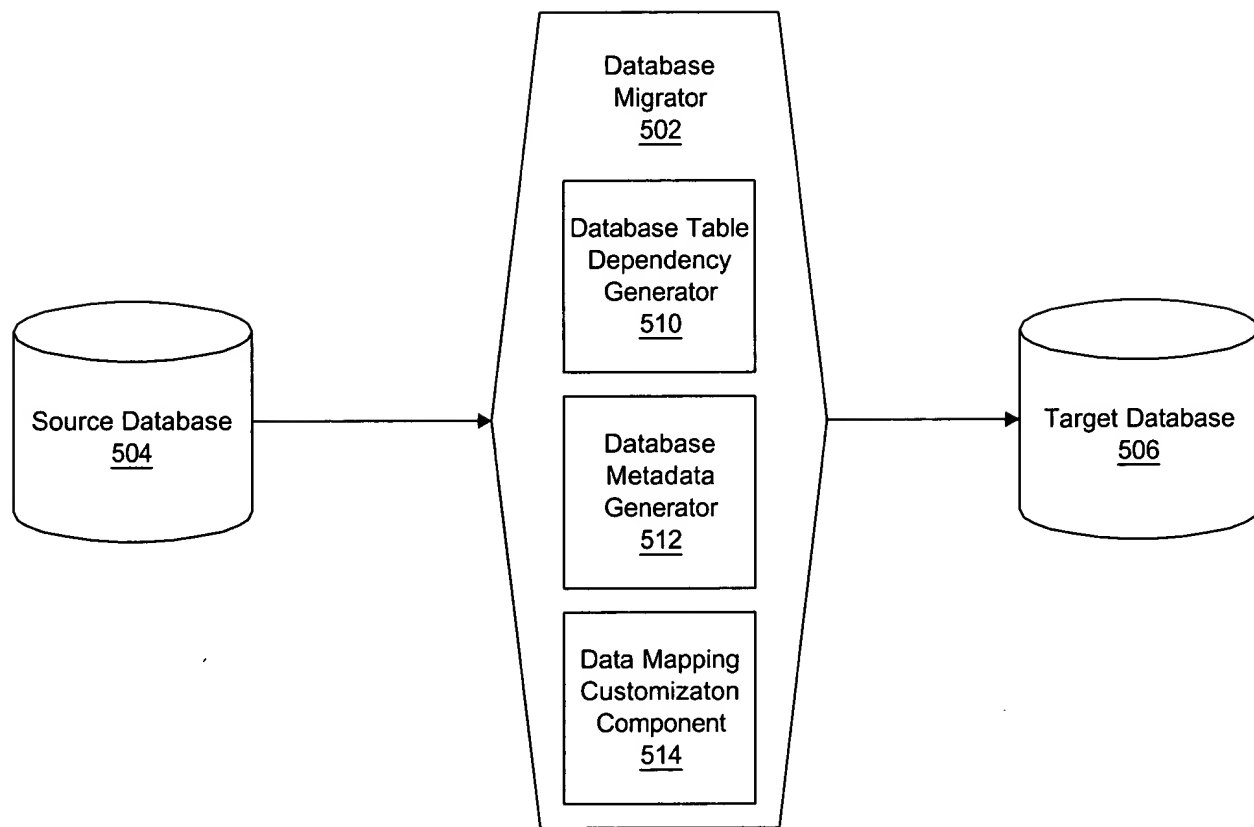


Figure 5A

09747818-112100

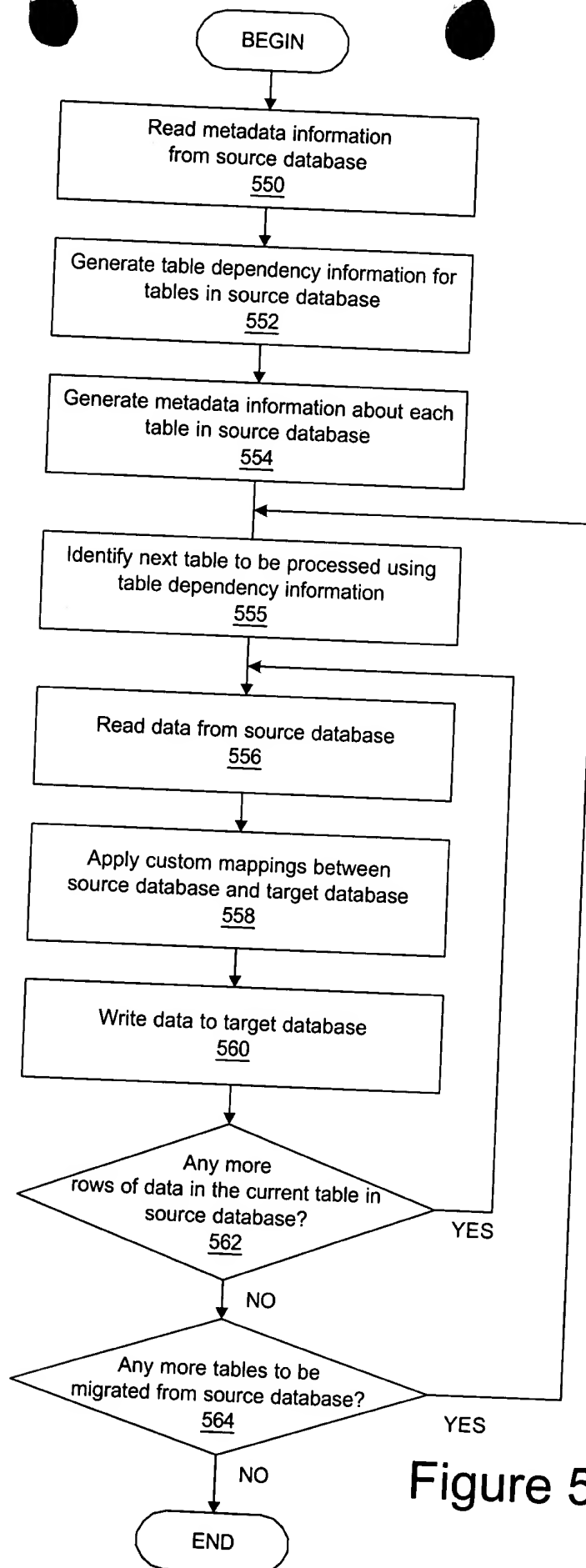


Figure 5B

610

```

<Table name="AUTH_TABLE" numattributes="4">
  <PrimaryKey>
    <Field name="AUTHOR_ID" pos="1">
      <Type> VARCHAR2 </Type>
      <Nullable> FALSE </Nullable>
      <Length> 20 </Length>
    </Field>
  </PrimaryKey>
  <Field name="NAME" pos="2">
    <Type> VARCHAR2 </Type>
    <Nullable> FALSE </Nullable>
    <Length> 40 </Length>
  </Field>
  <Field name="URL" pos="3">
    <Type> VARCHAR2 </Type>
    <Nullable> FALSE </Nullable>
    <Length> 1024 </Length>
  </Field>
  <Field name="DESCRIPTION" pos="4">
    <Type> VARCHAR2 </Type>
    <Nullable> FALSE </Nullable>
    <Length> 512 </Length>
  </Field>
</Table>

```

Figure 6A

620

```

<MappingRecord TargetTableName="T_AUTH_TABLE" >
  <SourceTableName> AUTH_TABLE </SourceTableName>
  <Field position="1">
    <TargetFieldName type= "String"> T_AUTHOR_ID </TargetFieldName>
    <SourceFieldName> AUTHOR_ID </SourceFieldName>
    <Truncatable> NO </Truncatable>
  </Field>
  <Field position="2">
    <TargetFieldName type= "String"> T_AUTHOR_NAME </TargetFieldName>
    <SourceFieldName> NAME </SourceFieldName>
    <Truncatable> NO </Truncatable>
  </Field>
  <Field position="3">
    <TargetFieldName type= "String"> T_URL </ClassField>
    <SourceFieldName> URL </SourceFieldName>
    <Truncatable> NO </Truncatable>
  </Field>
  <Field position="4">
    <TargetFieldName type= "String"> T_DESCRIPTION </TargetFieldName>
    <SourceFieldName> DESCRIPTION </SourceFieldName>
    <Truncatable> YES </Truncatable>
  </Field>
  <Field position="5" default="Unknown">
    <TargetFieldName type= "String"> T_LOCATION </TargetFieldName>
    <SourceFieldName> </SourceFieldName>
  </Field>
</MappingRecord>

```

Figure 6B

630

T_AUTHOR_ID	T_AUTHOR_NAME	T_URL	T_DESCRIPTION	T_LOCATION
AUTH_TABLE				

Figure 6C

```

<Table Name="AUTH_TABLE">
  <PrimaryKey>
    <Field name="AUTHOR_ID" type="VARCHAR2"></Field>
  </PrimaryKey>
  <Dependent Name="BOOK_AUTH_TABLE">
    <ForeignKey>
      <Attribute position="1">
        <Parent>AUTHOR_ID</Parent>
        <Child>AUTHOR_ID</Child>
      </Attribute>
    </ForeignKey>
  </Dependent>
</Table>

<Table Name="BOOK_AUTH_TABLE">
  <PrimaryKey>
    <Field name="ISBN" type="VARCHAR2"></Field>
  </PrimaryKey>
  <Dependent Name="BOOK_TABLE">
    <ForeignKey>
      <Attribute position="1">
        <Parent>ISBN</Parent>
        <Child>ISBN</Child>
      </Attribute>
    </ForeignKey>
  </Dependent>
</Table>

<Table Name="BOOK_TABLE">
  <PrimaryKey>
    <Field name="ISBN" type="VARCHAR2"></Field>
  </PrimaryKey>
</Table>

```

Figure 6B